

OR60 Tuesday 11 September 2018 - (please note that authors names are listed in the order of Presenter first and then alphabetically)

Time	Faraday LT	Cavendish C	Frankland C	Welcome 1	Welcome 2	Welcome 3	Welcome 4	County LT	Market PI	Private 1	Private 2	Bowland LT	Bowland SR20	Bowland Hall S	Lica A27	Lica A28	Lica A29	Minor Hall	Faraday 2
08:00	Registration/Refreshments/Luggage store 08:00 onwards – Great Hall																		
08:30																			
09:00	Opening Ceremony and Welcome: 09:00-09:30 - LICA building Conference Chair, Mr Graham Rand and Dean of LUMS Prof. Angus Laing																		
09:30	Plenary: Anna Nagurney, John F. Smith Memorial Professor 09:30-10:30 – LICA building Operational Research: The TransfORMative Discipline for the 21st Century																		
10:00																			
10:30	Refreshments – Great Hall																		
11:00	Systems Thinking KEYNOTE Systems Methodologies <i>Mike Jackson</i>			Healthcare Applications Applications of Simulation in NHS England <i>James Crosbie, David Halsall and Jonathan Pearson</i>	Forecasting Forecasting with Judgment <i>Fotios Petropoulos</i>	Combinatorial Optimisation Algorithms for Junior Doctor Allocation <i>David Manlove</i>	Health Systems Prescriptive Algorithmic Model for Antibiotics DSS <i>Adrian Yeow and Kim Huat Goh</i>	MCDA An Exact Objective Space MOMIP Algorithm <i>William Pettersson and Melih Ozlen</i>	Transport and Logistics Logistics Logistics <i>Brian Gutierrez, Said Salhi, Niaz Wassan and Shaomin Wu</i>	Energy Applications How Smart is Your Thermostat? <i>Roger Main</i>	Information Systems KEYNOTE Enterprise Cognitive Computing <i>Monideepa Tarafdar</i>	Metaheuristics Scheduling Twin Robots in a Palletising Problem <i>Oliver Thomasson, Maria Battarra, Gunes Erdogan and Gilbert Laporte</i>	Defence and Security KEYNOTE OR in Defence and Security <i>Paul Syms</i>	DEA and Productivity Output Attributes, Competition & Price Dispersion <i>Charles Howell and Emili Grifell Tatjé</i>	Location The Multi-Period Design of Preventative Healthcare <i>Soheil Davari</i>	Revenue Management Balancing Revenue and Load Under Customer Choice <i>Felix Geyer, Christina Büsing and Catherine Cleophas</i>	Simulation KEYNOTE Writing About Simulation <i>Christine Currie</i>	Community OR KEYNOTE Facts, Reason and Prolepsis <i>Jan Gerrit Schuurman</i>	
11:30				Healthcare Applications Exploring Broadening Implementation of My Research <i>Marion Penn, Chris Potts and Xiaozhou Zhao</i>		Combinatorial Optimisation Pareto-Optimal Allocations <i>Pavlos Eirinakis and Ioannis Mourtos</i>	Health Systems Modifiable Risk Factors - Brazilian Population <i>Simone Lima, Caroline Mota and Danielle Santos</i>	MCDA Multi-Objective Interdiction in Network Security <i>Zhengliang Liu, Arman Khouzani and Pasquale Malacaria</i>	Transport and Logistics Rapid Charger Problem in Oneway Carsharing Systems <i>Seyma Bekli, Burak Boyaci and Konstantinos Zografos</i>	Energy Applications Sustainable Integration of Renewable Energy <i>Omeffe Patrick Omavuezi and Patrick Luk</i>		Metaheuristics Complexity Classes and Reductions for Heuristics <i>Simon P Martin, Matthew Craven and John Woodward</i>		DEA and Productivity DEA Analysis of Offshore Wind Farms <i>Negar Akbari, Dylan Jones and Richard Trelor</i>	Location Reorganising the Healthcare Service <i>Zati Aqmar Zaharudin, Andrew Brint and Andrea Genovese</i>	Revenue Management Revenue Optimisation for Branded Fares <i>Jan Felix Meyer</i>	Simulation Agent-Based Simulation in Agri-Food Supply Chain <i>Bhakti Stephan Onggo, Steve Eldridge and Dhanan Utomo</i>		
12:00	Systems Thinking Systems Thinking: the Elevator Pitch! <i>Gerald Midgley</i>			Healthcare Applications The Dynamics of Referral-to-Treatment Pathways <i>Xun Wang, Weiwei Han, Fotios Petropoulos</i>	Forecasting Brain Imaging and Forecasting <i>Xun Wang, Weiwei Han, Fotios Petropoulos</i>	Combinatorial Optimisation Multi-Dimensional Vector Assignment	Health Systems Comparing Causes of Death Via Lost Life Expectancy <i>Malcolm Fenby</i>	MCDA Semismooth Newton Method for Bilevel Optimization <i>Alain Zemkoho</i>	Transport and Logistics Logistics Modelling User Preferences in One-Way E-Carsharing	Energy Applications Microgrid Optimisation Using a Novel Configuration	Information Systems Predictive Recommendations <i>Muhammed Fatih Kaya and Mareike Schoop</i>	Metaheuristics Sampling When Searching for Robust Solutions <i>Juergen Branke, Xin</i>	Defence and Security Improving RAF Weapons Employment <i>Philip Jones</i>	DEA and Productivity Supply Chains and Network DEA <i>Geraint Johnes and</i>	Location School Relocation Planning <i>Abhishek Bhatnagar and Nomesha B. Bolia</i>	Revenue Management Dynamic Pricing of Flexible Time Slots <i>Arne Strauss,</i>	Simulation Using Simulation Software to Optimize Staffing <i>Liam Hastie</i>	Community OR Community Knowledge Networks <i>Rebecca Herron, Eliseo Vilalta</i>	

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				Richard Wood	and Jing Wang	Trivikram Dokka			Burak Boyaci and Konstantinos Zografos	Omefe Omavuezi and Patrick Luk		Fei and Nalan Gulpinar		Martin Spring		Nalan Gulpinar and Yijun Zheng		Perdomo and Zoraida Mendivelso Bendek	
12:30	Lunch 12:30-13:30 - Great Hall																		
13:00																			
13:30	MEET the EDITORS Meet the Editors <i>Richard Eglese</i> The Panel are: Tom Archibald (JORS) Dursun Delen & Sudha Ram	Systems Thinking The Systemic Nature of Embedded Conflict <i>John Davies and Victoria Mabin</i>	Systems Thinking Assessing Practitioner Systems Thinking Capability <i>Niki Jobson and Lorraine Dodd</i>	Healthcare Applications Combining Data Mining and Simulation in Healthcare <i>Honora Smith, Kasia Bijak, Christine Currie, Navid Izady, Christina Saville and Dandan Shi</i>	Forecasting Interpreting Information in Judgmental Forecasting <i>Anna Sroginis, Robert Fildes and Nikolaos Kourentzes</i>	Combinatorial Optimisation Robust Lot-Sizing With Remanufacturing <i>Öykü Naz Attila</i>	Forecasting Airport Passenger Flows in Real-Time <i>Xiaoqia Guo, Bert De Reyck and Yael Grushka-Cockayne</i>	MCDA MCDA Methods <i>K.Nadia Papamichail and Theodor Stewart</i>	Transport and Logistics Solving a Gas Delivery Problem <i>Niaz Wassan, Gabor Nagy, Said Salhi and Lina Simeonova</i>	Energy Applications Roadmapping a Nuclear Future <i>Les Collier, John-Patrick Richardson and Paul Jennings</i>	Problem Structuring Methods Using Soft OR to Develop an Evidence Strategy <i>Tanya Powell</i>	Metaheuristics Learning to Mix and Control <i>Wenwen Li, Robert John and Ender Ozcan</i>	Defence and Security Scenario Analysis for Countering Terrorism <i>David Lowe</i>	DEA and Productivity Productivity of Chinese Regional Banking <i>Bingquan Zhao</i>	ORS ORGANISATIONS & CAREERS Careers - Thinking Ahead <i>Graham Rand</i>	Revenue Management Revenue Management for Indian Railways <i>Faiz Hamid and Ashish Sharma</i>	Simulation RH-RT <i>Navonil Mustafee, Alison Harper and John Powell</i>	Community OR COR: Survey of the Discipline <i>Michael Johnson, George Chichirau, Gerald Midgley and Jason Wright</i>	OR in Schools ©All You Wanted to Know About OR in Schools <i>Sophie Parker</i>
14:00	(Jnl of Bus. Analytics) Christine Currie (JOS) Par Agerfalk (EJIS) Sally Brailford (HS) Giovanni Schiuma (KMRP)	Systems Thinking Alcohol in Supermarkets Case Analysis <i>John Davies, Bob Cavana and Victoria Mabin</i>	Systems Thinking A Critical Systems Approach to Learning Design <i>Daniel Corrinne Shaw</i>	Healthcare Applications Addressing Waiting Time Perceptions in Hospitals <i>Daniel Gartner and Rema Padman</i>	Forecasting The Mangle in Practice <i>Christina Phillips</i>	Combinatorial Optimisation General Benders' Decomposition Framework in SCIP <i>Stephen Maher</i>	Forecasting a Time Series Method to Forecast Cargo <i>Rafael Bernardo Carmona Benitez, Maria Rosa Nieto Delfin and Jose N. Martinez</i>	MCDA The Delphi-DC-MACBETH Collaborative Approach <i>Monica Oliveira, Carlos Bana e Costa and Ana Vieira</i>	Transport and Logistics Offshore Maintenance Routing <i>Toby Kingsman and Burak Boyaci</i>	Energy Applications OR Methods for the Tidal Stream Energy Sector <i>Graham Wall and Dylan Jones</i>	Problem Structuring Methods Applying Adaptive Red Teaming to Enable Issues <i>Julia Piotto and Patricia Dexter</i>	Metaheuristics Move Acceptance in Local Search <i>Metaheuristics Warren Jackson, Robert John and Ender Ozcan</i>	Defence and Security Security Screening <i>Ian Griffiths, Marc Escandell, Christopher Holt and Rachel Purkess</i>	DEA and Productivity The Measuring of the Productivity in the Faculties <i>Gabriela Vica Uglea and Stelian Brad</i>		Revenue Management Revenue Management: Bibliometric Analysis <i>Yun Prihantina Mulyani</i>	Simulation HS to HSM <i>Navonil Mustafee and John Powell</i>	Community OR The Community in Community OR <i>Martha Vahl</i>	OR in Schools Volunteering - What's in it for Me? <i>Matthew Robinson</i>
14:30		Systems Thinking Reconnecting Severed Heads <i>Louie Gardiner</i>	Systems Thinking Smart Model-Based Governance <i>Stefano Armenta, Eduardo Franco, Carlo Maria Medaglia</i>	Healthcare Applications Assessing and Improving Trauma Outcomes Prediction <i>Fatima Almaghribi, Dong-Ling, Xu and</i>	Forecasting Behavioural Reactions to Demand Uncertainty <i>Mustafa Sinan Gonul, Celile Itir Gogus, Ayse Kocabiyiko-</i>	Combinatorial Optimisation Column Generation and IPMS <i>Jacek Gondzio</i>	Forecasting Nowcasting Electoral Behaviour With Social Media C <i>Lucia Rivadeneira, Manuel Lopez-Ibanez and Jian-Bo Yang</i>	MCDA Diversity in Recommender Systems <i>Ibrahim Muter, Teyfik Aytekin and Ethem Canakoglu</i>	Transport and Logistics Symmetry-Free CVRP Formulations <i>Jens Lysgaard and Sune L. Gadegaard</i>	Energy Applications KEYNOTE Energy Applications <i>Jian-Bo Yang, Ting Wu and Dong-Ling Xu</i>	Problem Structuring Methods The Development of Soft Operational Research <i>Leila Abuabara and Alberto Paucar-Caceres</i>		Defence and Security Requirements for UK Border Force Data Strategy <i>Mark Ashforth</i>	DEA and Productivity Teaching Excellence Framework Evaluation, England <i>Jill Johnes and Boon Lee</i>			Simulation The Taming Wicked Problems Framework <i>Chris Burman</i>	Community OR Developing Your 'North Star' to Clarify Purpose <i>Miles Weaver, Kenny Crossan and Hock Tan</i>	OR in Schools My ORIS Journey <i>Penny Holborn</i>

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			<i>and Alessandro Pompei</i>	<i>Jian-Bo Yang</i>	<i>glu and Dilek Onkal</i>														
15:00	Refreshments – Great Hall																		
15:30	SEMI-PLenary - FARADAY LT Meet The OR Society's Research Panel <i>Kevin Glazebrook</i>										SEMI-PLenary – BOWLAND LT 50 Years of Government Operational Research <i>Tony O'Connor</i>								
17:00	Coach to Windermere, Cruise and Dinner 17:00 onwards – depart from tba																		
17:30																			
18:00																			
18:30																			
19:00	Dinner at Lancaster University from 19:00 for those not on the Windermere trip – venue tba																		
19:30																			
20:00																			
20:30																			

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08:00	Breakfast Networking for Making and Impact - County LT – 08:00 – 09:00 (breakfast provided) Registration/Refreshments/Luggage store 08:00 onwards – Great Hall																			
08:30																				
09:00	Systems Thinking SSM and Infrastructure Business Models <i>Christopher Bouch and Christopher Rogers</i>	Systems Thinking Building Upon John Warfield's Vision <i>Michael Hogan</i>	Systems Thinking Comprehensive Worldview Model for Systems Research <i>David Rousseau and Julie Billingham</i>	Healthcare Applications Reducing ED Overcrowding <i>Luca Grieco, Sonya Crowe, Samer Elkhodair, Naomi Fulop, Martin Utley, Cecilia Vindrola-Padros, Harriet Walton and Victoria Wood</i>	Forecasting Retail Forecasting <i>Robert Fildes and Shaohui Ma</i>	Combinatorial Optimisation First-Order Method for Binary Quadratic Programs <i>Nirmalya Kumar Mohanty and Rupaj Kumar Nayak</i>	Combinatorial Optimisation Algorithms for Bilevel Knapsack Problem <i>Ashwin Arulsekhan and Alec Morton</i>	Making an Impact OR and Grand Challenges <i>Miles Weaver</i>	Making an Impact OR and Grand Challenges <i>Miles Weaver</i>	Making an Impact Creativedge - Get It Done <i>Mark Godber</i>	Making an Impact Waiting for Modot <i>Crispin Allard</i>	Making an Impact Ocado Order Prediction Hackathon <i>Matthew Leadbetter</i>	Disaster Management ORDER <i>Juliana Sutanto, Marc Goerigk, Puspa Sandhyaduhita and Konstantinos Zografos</i>	Defence and Security Structuring Scenario-Based Experimentation <i>Patrick Driscoll</i>	Community OR Business Perspective On Community Engagement <i>Elena Pershina, Kenny Crossan and Miles Weaver</i>	Location Breaking Down Barriers <i>Thomas Byrne and Jörg Kalcsics</i>	Revenue Management Room Allocation Problem <i>Nursen Aydin and Ilker Birbil</i>	Sustainable Supply Chain Lead-Time Disturbances <i>Virginia Spiegler, Mohamed Naim, Aris Syntetos and Li Zhou</i>	Stochastic Processes Combinatorial Bandits for Border Surveillance <i>Glazebrook, David Leslie and Roberto Szechtman</i>	Aviation Applications Symbiotic Simulation for Airline Disruption <i>Luke Rhodes-Leader, Barry L. Nelson, Bhakti Stephan Onggo and David Worthington</i>
09:30	Systems Thinking Soft Systems Practice: The PQR Technique <i>Anita Mirijamdotter and Sadaf Salavati</i>	Systems Thinking Public Health Systemic Change: Building Evidence <i>Eve Pinsker</i>	Systems Thinking Designing Operational Teams in Evolving Contexts. <i>David Rousseau and Julie Billingham</i>	Healthcare Applications Cooperation Between ED and Out-Of-Hours GP <i>Henk van Stel, Egbert Roos and Martin Smits</i>	Forecasting Distributional Regression <i>Matthias Ulrich, Hermann Jahnke, Roland Langrock, Robert Pesch and Robin Senge</i>	Combinatorial Optimisation Anomalous Behaviour of Dual-Based Heuristics <i>M. Hasan Mansoor, Trivikram Dokka and Adam N. Letchford</i>	Combinatorial Optimisation The Student-Project Allocation Problem <i>Sofiat Olaosebikan, David Manlove and Duncan Milne</i>	Making an Impact OR and Grand Challenges <i>Miles Weaver</i>	Making an Impact OR and Grand Challenges <i>Miles Weaver</i>	Making an Impact Creativedge - Get It Done <i>Mark Godber</i>	Making an Impact Waiting for Modot <i>Crispin Allard</i>	Making an Impact Ocado Order Prediction Hackathon <i>Matthew Leadbetter</i>	Disaster Management Minimizing Flood Impact on Road Infrastructure <i>Trung Hieu Tran, Graham Adutt, Phuong Dang, Thanh Quang Dang, Cong Chinh Ngo, Van Hiep Nguyen, Hoai Chung Pham and Maria Paola Scaparra</i>	Defence and Security Innovation for Defence and Security <i>Deborah Fish</i>	Community OR Systems Thinking Concepts in Program Evaluation <i>Maria Alejandra Torres-Cuello and Luis Arturo Pinzon-Salcedo</i>	Location Heuristic for Alternative-Fuel Station Location <i>Gabor Nagy, Thu Ba Nguyen, Trung Hieu Tran and Niaz Wassan</i>	Revenue Management Car Rental Network Revenue Management <i>Dong Li, Zhan Pang and Dali Zhang</i>	Sustainable Supply Chain Resource Recovery From Urban Waste Water <i>Seda Sucu, Djamila Ouelhadj and Maria Orhideea van Schaik</i>	Stochastic Processes Information Provision On Ride-Hailing Platforms <i>Dongyuan Zhan, Leon Yang Chu and Zhixi Wan</i>	Aviation Applications Long-Term Maintenance Scheduling of Aircraft <i>David Torres</i>

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10:00			Systems Thinking SASSY Architecture <i>Ivo Velitchkov</i>	Healthcare Applications Simul8 Model of an A&E Department <i>Sara Heledd Thomas</i>	Forecasting The Latest Techniques for Call Centre Forecasting <i>Devon Barrow</i>	Combinatorial Optimisation SDP Relaxations of the Clique Partitioning Problem <i>Anh Vu and Adam Letchford</i>	Combinatorial Optimisation Stable Marriage with Ties <i>Maxence Delorme, Sergio Garcia, Jacek Gondzio, Joerg Kalcsics, David Manlove and William Pettersson</i>					Disaster Management Road Network Protection Against Flooding <i>Stefano Starita and Maria Paola Scaparra</i>		Community OR OR, Unbounded Problems & Undefined Resources <i>Eliseo Vilalta-Perdomo, César García-Díaz, Martin Hingley and Rosario Michel-Villarreal</i>	Location Reliable Hub Systems with Multiple Capacity Levels <i>Nader Azizi</i>	Revenue Management Allocation for Stochastic Container Leasing System <i>Wen Jiao, King-Wah Pang and Hong Yan</i>	Sustainable Supply Chain KEYNOTE Data for the SC or SC of Data? <i>Thanos Papadopoulos and Konstantina Spanaki</i>	Stochastic Processes Search in Discrete Locations With Two Search Modes <i>Jake Clarkson, Kevin Glazebrook and Kyle Lin</i>	Aviation Applications MRSA <i>Jun Chen and Michal Weiszer</i>
10:30	Refreshments – Great Hall																		
11:00	Plenary: Peter Checkland, pioneer of Impact led research. 11:00-12:00 – LICA building ‘Reflections on 40 years of engagement with so-called ‘social’ and ‘management’ science, including OR ‘hard’ and ‘soft’.																		
11:30																			
12:00	Systems Thinking Systemic Reflection About Peace Culture <i>Ricardo Abad Barros-Castro, Tatiana Cuéllar, Giovanna Fiorillo, Luisa García and Blanca Oviedo</i>	Systems Thinking Systemic Approaches to Action for Education Equity <i>Kirsten Kainz</i>	Systems Thinking Organisational Health for Anticipatory Change <i>David Lowe, Karen Clark, Gerald Midgley and Mike Yearworth</i>	Healthcare Applications KEYNOTE Kidney Donation in the UK <i>David Manlove</i>	Forecasting KEYNOTE Evaluation of Probabilistic Forecasts <i>James Taylor</i>	Combinatorial Optimisation KEYNOTE On Combinatorial Optimisation <i>Vladimir Deineko</i>	Healthcare Applications POSTER session 9 poster presentations	Making an Impact Agent Based Simulation <i>Marc Escandell</i>	Making an Impact Developing Your Career: OR/Analytics Professional <i>Sophie Carr, Michael Mortenson and John Ranyard</i>	Making an Impact iAI – Introducing Artificial Intelligence <i>Jennifer East, Angelico Fetta, Deborah Fish, John Hope and Gilbert Owusu</i>	Making an Impact Ocado Order Prediction Hackathon <i>Matthew Leadbetter</i>	Metaheuristics KEYNOTE Matheuristic Methods <i>Jonathan Thompson</i>	Defence and Security Threat System Mapping <i>Jordan Di Placito</i>	Robust Optimisation A Metaheuristic for Robust Optimisation <i>Martin Hughes and Marc Goerigk</i>	Strategy Whatever Happened to Rational Government <i>Jeffrey Jones</i>	Aviation Applications KEYNOTE Air Traffic (Flow) Management <i>Guglielmo Lulli</i>	Simulation Quantifying Input Modelling Error in Simulation <i>Lucy Elizabeth Morgan, Barry Nelson, Andrew Timan and David Worthington</i>	ORS CHARITIES Support for Charities <i>Amy Hughes</i>	ORS COMMITTEE SESSIONS ORS D&I Workshop <i>Sayara Beg</i>
12:30	Systems Thinking Governance of “Unsolvable” Conflict Situations	Systems Thinking Balancing Activity Drivers & Daily	Systems Thinking the Operationalisation of Systems Thinking										Defence and Security Time and Variety in Changing Locus of Control	Robust Optimisation Robust Network Capacity Expansion	Strategy Patterns of Strategy <i>Patrick Hoverstadt and Lucy Loh</i>		Simulation Enabling the Automated Calibration of Simulations		

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	<i>Viacheslav Maracha</i>	Cadence in HAS <i>Javier Calvo</i>	<i>Gordon Niven and David Capewell</i>										<i>Terence Love</i>	<i>Francis Garuba, Marc Goerigk and Peter Jacko</i>			<i>Catherine Cleophas and Anas Elhag</i>		
13:00	Lunch 13:00-14:00 – Great Hall																		
13:30	Lunch 13:00-14:00 – Great Hall																		
14:00	President Medal Presentations:																		
	14:00-14:30 Ian Griffiths and James Adamson, (<i>decisionLab</i>), Richard Wakelen, and Sheena Wilson (<i>Canal & River Trust</i>) Transforming a National Institution: A Case Study in Bringing Together OR Best Practice and Engineering Expertise to Improve the Waterways of England and Wales																		
14:30	14:30-15:00 Mr Max Moullin, (<i>Public Sector Scorecard Research Centre</i>) and Mr John Soady, (<i>Sheffield City Council</i>) Improving Sheffield's Health with the Public Sector Scorecard																		
15:00	15:00-15:30 Robert Leese, Jakob Blaavand, Claudia Centazzo and Andrei Bejan, (<i>Smith Institute</i>) Repurposing the Radio Spectrum: Delivering on the Promise of Next-Generation Mobile Services																		
15:30	Refreshments - Great Hall																		
	Walking Tour of Lancaster City from 15:30-18:00 - depart from tba																		
16:00	Systems Thinking Strengthening Health Systems <i>Mike Walsh, James Antwi, Markus Kittler, Khosi Mthethwa and Mike Robbins</i>	Systems Thinking Library Managers Human Activity Systems Modeling <i>Niki Chatzipanagiotou and Anita Mirijamdotter</i>	Systems Thinking Enhancing Leader-Member Exchange Theory with Bound <i>Oralia de la Pena de Torres</i>	Healthcare Applications Optimisation-Based Hospital Layout Planning <i>Anders N. Gullhav, Henrik Andersson, Vilde N. Kvillum, Bjørn Nygreen and Anne Marit R. Vigerust</i>	Forecasting Earned Duration Management (EDM) <i>Homayoun Khamooshi</i>	Combinatorial Optimisation HIGHS: A High-Performance Optimizer <i>Julian Hall and Ivet Galabova</i>	Making an Impact Behavioural OR and the Public Sector Scorecard <i>Max Moullin</i>	Making an Impact Strengths Assessment <i>Liz Archibald</i>	Making an Impact A Gentle Introduction to Data Science <i>Panagiotis Samartzis</i>	Making an Impact Python - It's Not Just a Snake <i>Dominika Glowa</i>	Making an Impact Agile in OR & Analytics <i>Lawrence Cook</i>	OR in Sport Overall Champions <i>David Percy</i>	Third Sector OR Some Observations on the Third Sector <i>Malcolm Fenby</i>	Problem Structuring Methods Developing a Generic Problem Structuring Method <i>Chris Smith</i>				ORS SCHOOLS Learn About Operational Rsch - School Groups <i>Sophie Parker</i>	ORS COMMITTEE SESSIONS Board and General Council <i>John Hopes</i>
16:30	Systems Thinking Kaleidoscopic Configurator of Digital Economy <i>Dmitry Reut</i>	Systems Thinking Digital Transformation in Public Agencies <i>Anita Mirijamdotter, Mari Runardotter, Diana</i>	Systems Thinking Systemic Design for a Primary School <i>Angela Espinosa and Gabriela Ramirez</i>	Healthcare Applications Restructuring Inpatient Wards <i>Sebastian Rachuba, Elvan Gokalp and Nalan Gulpinar</i>	Forecasting Movie Demand Forecasting Using Delphi Method <i>Kit Mun Mak, Wei Chong Choo and Annuar Md Nassir</i>	Combinatorial Optimisation Stronger Separation of Bilinear Terms <i>Felipe Serrano, Ambros Gleixner</i>						OR in Sport Snooker Analysis <i>James Collingwood</i>	Third Sector OR Pro Bono OR Challenges <i>Amy Hughes</i>	Problem Structuring Methods Personal Tutoring in HE and SSM Analysis <i>Stephen Powell and Alicia Prowse</i>					

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		<i>Chroneer and Anna Stahlbrost</i>				<i>and Benjamin Mueller</i>													
17:00	Systems Thinking Systems Approach to Church Leadership <i>Gottfried Claussen</i>	Systems Thinking Appreciative Systems Model for Digital Capability <i>Behrooz Golshan, Anita Mirijamdotter and Patrik Elm</i>	Systems Thinking Systemic Intervention <i>Juan Scribante and Theo Andrew</i>	Healthcare Applications Nurse Scheduling (Multiple Level/Shift-Type/Area) <i>Zhiyuan Lin, Huikun Hua and Ran Wang</i>	Forecasting Pre-Release Search Traffic Profiles <i>Oliver Schaer, Robert Fildes and Nikolaos Kourentzes</i>			Making an Impact Modern Day Elevators - Network in 20 Seconds <i>Sophie Carr</i>				OR in Sport Risk Strategies for Team Players <i>David Calvert</i>	Third Sector OR OR in Support of Charityworks <i>Howard Turner</i>	Problem Structuring Methods The Role of Stakeholders in OR Interventions <i>Harry Kogetsidis</i>					ORS COMMITTEE Education & Research. <i>Cttee Alistair Clark</i>
17:30	Systems Thinking The Significant Loose Ends of Systemic Leadership? <i>Catherine Hobbs</i>	Systems Thinking A Systems Perspective On Business Model Innovation <i>Erdelina Kurti and Anita Mirijamdotter</i>	Systems Thinking Operational Research/Systems Thinking Synergies <i>Luis Arturo Pinzon-Salcedo and Maria Alejandra Torres-Cuello</i>	Healthcare Applications A GRASP-Based DSS for the HHCRRSP <i>Carlos Lamas-Fernandez and Thomas Monks</i>	Forecasting Deep Learning for Forecasting Model Selection <i>Sasan Barak and Sven F Crone</i>							OR in Sport Scoring and Entertainment in Rugby Union <i>Phil Scarf</i>	Third Sector OR Conveying the Suicide Crisis in a Single Sentence <i>Malcolm Fenby</i>	Problem Structuring Methods Survey of PSM and MM in Latin America <i>Maria Alejandra Castellini and Melany Segarra Marinetti</i>				OR in Schools All You Wanted to Know About OR in Schools <i>Sophie Parker</i>	
18:00																			
18:30																			
19:00	Gala Dinner at Lancaster University 19:30 'til late LICA building																		
19:30																			
20:00																			
20:30																			

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08:00	Registration + Refreshments + Luggage store 08:00 onwards – Great Hall																			
08:30																				
09:00	Systems Thinking Food Circular Economy: Systems Thinking Invitation <i>Toni Burrowes-Cromwell and Alberto Paucar-Caceres</i>	Systems Thinking 2 Feedback Loop Axiom Systems Implications: OR & Systems <i>Terence Love</i>	Systems Thinking Towards Engaged Scientific Communities <i>Pawel Kawalec</i>	Healthcare Applications Infinite-Server Queues for 'Predictive Modelling' <i>David Worthington, Dan Suen and Martin Utley</i>	Forecasting Exponential Smoothing Overview <i>Ivan Svetunkov and Nikolaos Kourentzes</i>	Combinatorial Optimisation Homomorphisms and Generalisations from Both Sides <i>Stanislav Zivny</i>	Forecasting Equity Premium Prediction <i>Ekaterini Panopoulou</i>	MCDA for Circular Economy <i>Maryam Masood and Stuart R Coles</i>	Transport and Logistics Solution for MOVRP With Environmental Criteria <i>Raeesi and Konstantinos G. Zografos</i>	OR Consultancy & Case Studies Putting the Cart Before the Horse <i>Vivienne Raven</i>	Information Systems Innovation in Data-Rich Environments <i>Amani AL-Jaafreh, Amjad Fayoumi and Juliana Sutanto</i>	Disaster Management Comparing Protection Strategies Against Disasters <i>Maria Paola Scaparra and Stefano Starita</i>	Timetabling and Scheduling KEY-NOTE Timetabling and Scheduling <i>Rhydian Lewis</i>	Business Analytics You Earn How Much? You Must Be Joking! <i>Colin Stewart</i>	Location On Carriers Collaboration in Hub Location <i>Antonino Sgalambro and Elena Fernández</i>	Aviation Applications Proposing an MCDM for Airport Slot Allocation <i>Fotios Katsigiannis and Konstantinos Zografos</i>	Stochastic Processes Repeated Allocation of Assets With Short Lifespan <i>Stephen Ford</i>	Risk Energy Risk Identification and Evaluation <i>Amin Vafadarnikjoo, Tiago Botelho and Konstantinos Chalvatzis</i>	Behavioural OR KEY-NOTE SD and Behavioural OR <i>John Morecroft</i>	ORS COMMITTEE SESSIONS Events Committee <i>Ruth Kaufman</i>
09:30	Systems Thinking Lessons From Grenfell: A Systems Thinking Approach <i>John Foley and Kerry Turner</i>	Systems Thinking Epistemology of Modelers as Stakeholders <i>Amber Elkins, Wade McDonald, Dennis Gorman, Mark Lawley, Gerald Midgley, Nathaniel Osgood and H. Morgan Scott</i>	Systems Thinking Systems Thinking for Sense Making <i>Yingli Wang</i>	Healthcare Applications Chronic Care Management with PAM <i>Evrin Gunes, Odysseas Kanavetas, Lerzan Ormeci and Christos Vasilakis</i>	Forecasting Forecasting Life Cycles With Exponential Smoothing <i>Xiaojia Guo</i>	Combinatorial Optimisation Improved Guarantees for K-Means Clustering <i>Justin Ward</i>	Forecasting Modeling and Forecasting Exchange Rate Volatility <i>Menglin Chen and Wei Chong Choo</i>	MCDA Evaluating Radiotherapy Treatment Plan Quality <i>Emma Stubington, Matthias Ehr Gott, Omid Nohadani and Glyn Shentall</i>	Transport and Logistics A Two-Stage Biased Randomised Heuristic for LRPCD <i>Abdullah Almouhanna, Angel Juan, Banafsheh Khosravi, Djamilia Ouelhadj, Javier Panadero and Carlos Quintero-Araujo</i>	OR Consultancy & Case Studies Iprep <i>Gerard Doyle and Anthony Staines</i>	Information Systems Measuring the Impact of a Digital Learning Portal <i>Masoud Fakhimi, Lampros Stergioulas and Munir Abbasi</i>	Disaster Management Optimisation-Simulation for Disaster Management <i>Pavel Albores and Oscar Rodriguez-Espindola</i>		Business Analytics Design Thinking in Business Analytics Development <i>Richard Vidgeon and Giles Hindle</i>	Location Lagrangian Relaxation for P-Median Radius <i>Minerva Martín del Campo and Sergio García Quiles</i>	Aviation Applications Optimizing Slot Allocation at Level 3 Airports <i>Nuno Antunes Ribeiro, Alexandre Jacquillat, Amedeo Odoni and António Pais Antunes</i>	Stochastic Processes New Stochastic Processes for Reliability System <i>Shaomin Wu</i>	Risk GAMS for Credit Risk Survival Data <i>Jonathan Crook and Viani Djeundje</i>		
10:00	Systems Thinking Systems Thinking in Education <i>Kerry Turner</i>	Systems Thinking Non Linear Modelling <i>Cor van Dijkum</i>	Systems Thinking Systems Thinking in Policy Development <i>Sarie Brice, Doris Behrens, Daniel Blachfellner</i>	Healthcare Applications Modelling Depression <i>Sarie Brice, Doris Behrens, Daniel Gartner</i>	Forecasting Forecasting Using Complex-Valued Autoregressions <i>Sergei Svetunkov and Ivan Svetunkov</i>	Combinatorial Optimisation Constant-Factor Approximation for ATSP <i>Laszlo Vegh, Ola</i>		MCDA Uncertain Data Envelopment Analysis <i>Matthias Ehr Gott, Allen Holder and</i>	Transport and Logistics Environmental Routing <i>Said Salhi, Adolf Acquaye and</i>	OR Consultancy & Case Studies Systems Models at DIT <i>Hala Elsayed, Richard Jackson</i>		Disaster Management Integration of Different Disaster Stages <i>Betul Coban and Maria</i>	Timetabling and Scheduling Technician Routing and Scheduling <i>Ruth Walton, Stefano Coniglio</i>	Business Analytics Big Data Analytics <i>Christopher Holland</i>		Aviation Applications A Slot Allocation Model With Queuing Constraints	Stochastic Processes Intelligence Gathering Operations <i>Christopher Kirkbride</i>		Behavioural OR Lessons for Mixed Method Work <i>Susan Howick and Fran Ackermann</i>	

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				<i>and Paul Harper</i>		<i>Svensson and Jakub Tarnawski</i>		<i>Omid Nohadani</i>	<i>Norfaieqah Ahmad</i>	<i>and Lee Zhao</i>		<i>Paola Scaparra</i>	<i>and Joerg Fliege</i>			<i>Jamie Fairbrother, Kevin Glazebrook, Robert Shone and Konstantinos Zografos</i>				
10:30	Refreshments – Great Hall																			
11:00	Systems Thinking Emergent Quality Management <i>Tomas Backstrom, Anders Fundin and Peter E Johansson</i>	Systems Thinking FoRSE® Matrix Software for OR and More <i>Blane Despres</i>	Systems Thinking A Practical Application of Systems Methodologies <i>Michael Walker</i>	Healthcare Applications Evaluating Small Scale Primary Care Interventions <i>Christopher Sherlaw-Johnson</i>	Forecasting Intermittent Demand Forecasting <i>John Boylan and Aris Syntetos</i>	Combinatorial Optimisation Matroid Parity and Matching Polytopes <i>Ioannis Mourtos, Konstantinos Kaparis and Adam Letchford</i>	Health Systems Logical Rules in Healthcare Operations <i>Fahim Ahmed, Gillian Anderson and Robert Van der Meer</i>	MCDA KEY-NOTE Learning From and for MCDA Practice <i>Valerie Belton</i>	Transport and Logistics Order Picking Under Different Storage Assignments <i>Jiyin Liu</i>	OR Consultancy & Case Studies Outsourcing Risk Management <i>Martin Parr</i>	Information Systems Re-Designing Mindfully ES Modules <i>Masoud Fakhimi, Athina Ioannou and Konstantina Spanaki</i>	Disaster Management Multi-Method Approach Use of DPSIR and VSM <i>Saita Al Sadoon</i>	Timetabling and Scheduling Scheduling Policies for Continuous Bioprocesses <i>Folarin Oyebolu, Jürgen Branke and Suzanne Farid</i>	Business Analytics Collaborative Data Exploration <i>Aidan Cross, Tim Foster and Richard Vidgen</i>	Network Optimisation Applications Network Modeling Using Covariates <i>Swati Chandna</i>	Aviation Applications Airline Crew Scheduling <i>Phornprom Rungrueang, Banafsheh Khosravi and Djamila Ouelhadj</i>	Stochastic Processes KEY-NOTE Stochastic Modelling of Aircraft Queues <i>Robert Shone, Kevin Glazebrook and Konstantinos Zografos</i>	Simulation SIG Meeting at OR60 <i>Navonil Mustafee</i>	Behavioural OR Supply Chain Coordination and Risk Aversion <i>Niladri Palit and Andrew Brint</i>	ORS COMMITTEE SESSIONS The Publicity, Members and Website Committee <i>Vivienne Raven</i>
11:30	Systems Thinking Applying Complexity Theory to Contracting <i>Judy Oakden</i>	Systems Thinking FoRSE® Matrix Application <i>Blane Després</i>	Systems Thinking Re-Designing Information Boards: Interwoven Design <i>Ulrika Florin and Carina Soderlund</i>	Healthcare Applications Decision Analytics for Emphysema Treatment <i>Shengfan Zhang</i>	Forecasting Compound Poisson Forecasting and Inventory Control <i>Ruud Teunter, Mohamed Zied BABAI and Aris Syntetos</i>	Combinatorial Optimisation Multi-Dimensional Knapsack Problem <i>Stathis Plitsos, Konstantinos Kaparis and Ioannis Mourtos</i>	Health Systems Hybrid Real-Time Simulation for Emergency Care <i>Alison Harper and Navonil Mustafee</i>		Transport and Logistics Real-Time Railway Rescheduling <i>Edwin Reynolds</i>	OR Consultancy & Case Studies SD to Support Nuclear Sector Strategy <i>Ston Cave</i>	Information Systems Realistic Evaluation Case Study Development <i>Andrew Boilson, Justin Connolly, Regina Connolly, Paul Davis, Anthony Staines and Weston</i>	Disaster Management Integrating Shelter Location & Evacuation Routing <i>Annunziata Esposito Amideo, Maria Paola Scaparra, Antonio Sforza and Claudio Sterle</i>	Timetabling and Scheduling Exam Timetabling as a Grouping Problem <i>Anas Elhag and Ender Ozcan</i>	Business Analytics A Methodology for Identifying Flying Route Markets <i>Rafaël Carmona-Benitez and Maria Nieto</i>	Network Optimisation Applications Comparing Sampling Designs on Networks via Informa <i>Simon Lunagomez Coria, Marios Papamichalis and Patrick J. Wolfe</i>				Behavioural OR Treatment Process Differences in Offload Zone <i>Peter Vanberkel, Alix Carter and Molly Elliott</i>	
12:00	Systems Thinking Dynamics of Variety to Change	Systems Thinking To Increase Expertise	Systems Thinking A Systems Thinking View of	Healthcare Applications Healthcare Behaviour	Forecasting Forecast Nervousness	Combinatorial Optimisation	Health Systems SSM Assessment		Transport and Logistics Railway Scheduling	OR Consultancy & Case Studies	Information Systems Asset Health Prognostic		Timetabling and Scheduling Hyper-Heuristics				Stochastic Processes Optimizing Proactive Transshi-		Behavioural OR ABM of Conflict in IS Projects	

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	Locus of Control <i>Terence Love</i>	Rather Than Knowledge <i>Eliseo Vilalta-Perdomo and Cesar Garcia-Diaz</i>	Project Failure <i>Paul Summers</i>	ral OR <i>Paul Harper</i>	ess in Supply Chains <i>Qinyun Li and Stephen Disney</i>	Cut Polytopes and Graph Minors <i>Konstantinos Kaparis, Adam Letchford and Ioannis Mourtos</i>	nt of Unions Heterogeneity in Health <i>Francis Andem</i>		in the Presence of Uncertainties <i>Nattapol Paisarnvir-osrak, Banafsheh Khosravi and Djamila Ouelhadj</i>	Modelling the Condition of the School Estate <i>Peter Curtis and Adrian Fletcher</i>	cs Using Machine Learning <i>Ian Griffiths, Cristina Morariu, Chris Smith-Clarke, Gordon Squire and Amrith Surendra</i>		for Solving UTRP <i>Leena Ahmed, Philipp Heyken, Ahmed Kheiri, Yong Mao and Christine Mumford</i>				pmments in Retail Netw <i>Thomas Archibald</i>		<i>Richard Williams</i>	
12:30	Lunch 12:30-13:30 – Great Hall																			
13:00	Lunch 12:30-13:30 – Great Hall																			
13:30	Systems Thinking OR, Systems Thinking, and the UN Global Goals <i>Yasmin Merali and Geoff Royston</i>	Systems Thinking Threshold Concepts in System Thinking <i>Patrik Elm, Sarfraz Iqbal and Anita Mirijamdotter</i>	Systems Thinking A Smart Community Approach to Improving Healthcare <i>Tim Woolliscroft</i>	Healthcare Applications Building Systems and Research in Rural Uganda <i>Andrew Dobson</i>	Forecasting Model Uncertainty in Hierarchical Forecasting <i>Nikolaos Kourentzes</i>	Combinatorial Optimisation On Lifted Cover Inequalities for 0-1 LPs <i>Georgia Souli and Adam Letchford</i>	Cutting and Packing Heuristics for the Score-Constrained Strip-Packing <i>Asyl Liyakat Hawa</i>	Data Mining How to Fit an Equation to Data Symmetrically <i>Christopher Tofallis</i>		OR Consultancy & Case Studies KEY-NOTE A Principled Basis for Decision <i>Ian Mitchell</i>	Health Systems Health Systems Editors' Meeting <i>Paul Harper</i>	Disaster Management KEY-NOTE Refugee Resettlement <i>Alexander Teytelboym, Narges Ahani, Tommy Andersson and Andrew Trapp</i>		Business Analytics IoT and Bullwhip Effect <i>Christos Papanagnou</i>	Network Optimisation Applications Robust Retrofitting Planning <i>Xuan Vinh Doan</i>		Stochastic Processes Irreversible Investment in Petroleum Refinery <i>Sunday E. Omosigho and Esosa Enoyoze</i>	ORS COMMITTEE SESSIONS Women in OR Network Penny Holborn and Frances O'Brien	Community OR COR SIG AGM <i>Martha Vahl</i>	ORS COMMITTEE SESSIONS Publications Committee <i>Richard Eglese</i>
14:00	Systems Thinking Putting Some Systems Thinking Back into SSM <i>Giles Hindle and Richard Vidgen</i>	Systems Thinking Systems Thinking: Personal and System Archetypes <i>Svetlana Shchepetova</i>	Systems Thinking Stakeholders take the Stage <i>Tom Scholte</i>	Healthcare Applications Interdisciplinary Programme for Maternity Safety <i>Guillaume Lamé, Jenni Burt, Mary Dixon-Woods, Tim Draycott, Elisa G. Liberati, Rebecca K. Simmons, James Ward and</i>	Forecasting Weighted Energy Score <i>Xiaochun Meng and James Taylor</i>	Combinatorial Optimisation New Cutting Planes for Fixed-Charge Problems <i>Adam Letchford and Georgia Souli</i>	Cutting and Packing Heuristic for the Skiving Cutting Stock Problem <i>Xiang Song, Yan Chen, Yaodong Cui and Djamila Ouelhadj</i>	Data Mining Machine Learning From Unicorns to Racehorses <i>Gillian Groom</i>					Business Analytics Mortgage Lending <i>Swati Sachan, Dong-Ling Xu and Jian-Bo Yang</i>	Network Optimisation Applications Exploiting Network Structures <i>Lulli, Semih Atakan and Suvrajeet Sen</i>		Stochastic Processes Project Scheduling in Dynamic Environments <i>Ugur Satic, Peter Jacko and Christopher Kirkbride</i>				

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				<i>Cathy Winter</i>																
14:30	Systems Thinking Systems Thinking Case Study: Emergent Governance <i>John Pourdehnad and Paul Welfer</i>			Healthcare Applications Social Networks and Obesity <i>Mark Tuson, Daniel Gartner and Paul Harper</i>	Forecasting On the Untunability of Forecasting Algorithms <i>Steven Prestwich</i>		Cutting and Packing Sequencing Algorithm to Vehicles Assembly Process <i>Nei Yoshihiro Soma, Renato Duarte Costa and Rafael Magalhaes Dias Frinhani</i>					Disaster Management Humanitarian Responses and Fighting Poverty <i>Rose Drummond</i>					Stochastic Processes Cutting Queues <i>Vasco Alves</i>	OR in Schools All You Wanted to Know About OR in Schools <i>Sophie Parker</i>		
15:00	Refreshments – Great Hall																			
15:30 to 16:30	Presidential Address and Closing Ceremony 15:30 LICA building John Hopes, President of The OR Society and recently retired as EY’s Global Head of Business Modelling, ‘New challenges for operational research in the age of AI and big data’																			